# PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING FULL—TRAFFIC—ACTUATED SIGNAL AT MD 150 AND BENGIES ROAD IN BALTIMORE COUNTY. MD 150 IS ASSUMED TO RUN IN AN EAST—WEST DIRECTION.

## INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA THREE—PHASE, FULL—TRAFFIC ACTUATED MODE, WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE EAST LEG OF MD 150.

THE INTERSECTION OPERATION WILL BE REVISED TO INCLUDE AN EXCLUSIVE—PERMISSIVE LEFT TURN PHASE FOR EASTBOUND MD 150.

## CONTROLLER REQUIREMENTS

THE EXISTING FULL—TRAFFIC—ACTUATED, EIGHT—PHASE CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE USED. A FOUR—CHANNEL TIME—DELAY—OUTPUT LOOP DETECTOR AMPLIFIER WILL BE INSTALLED INTO THE EXISTING CABINET.

# WIRING DIAGRAM EC B,EC C,D,EC LW A,EC A,D,EC

NOTE: UNLESS OTHERWISE NOTED, ALL EXISTING WIRING WILL BE USED

## WIRING KEY

- A 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
- B 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- EC EXISTING CABLE
- LW LOOP WIRE (NO. 14 A.W.G.)

# EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED	) BY THE SHA
QUANTITY	DESCRIPTION
1 EACH	8 IN./12 IN., ONE—WAY, FIVE—SECTION (R,Y,YA,G,GA) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE HANGER FO SPAN WIRE MOUNTING AND TUNNEL VISORS.
2 EACH	8 IN., ONE—WAY, THREE—SECTION (R,Y,G) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE HANGER FOR SPAN WIRE MOUNTING AND TUNNEL VISORS.
11 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF:  - 1 EACH R10-12 SIGN (36 IN. x 42 IN.) SPAN WIRE MOUNT
1 EACH	FOUR-CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER.

# EQUIPMENT LIST "B"

B. EQUIPMENT TO	D BE FURNISHED AND/OR INSTALLED BY	THE CONTRACTOR	
ITEM NO.	•	DESCRIPTION	Francisco (September 1997)
1001	1 EACH	MAINTENANCE OF TRAFFIC	
5005		24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE	. "
8010	80 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 IN. DIAMETER	
8011	3 EACH	INSTALL SIGNAL HEAD	
8022	160 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP	DETECTOR)
8024		FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	
8043		FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)	
8044	170 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE— 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)	
8047	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE— 5 CONDUCTOR (NO. 14 A.W.G.)	
8048	70 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE— 7 CONDUCTOR (NO. 14 A.W.G.)	
8057	11 S.F.	INSTALL OVERHEAD SIGN	
8067	1 EACH	USE EXISTING DISK AND AS-BUILT TRAFFIC CONTROL	DEVICE

REGION NO.

3

MD

PHASE CHART

	R Y G G	RYG	RYG	RYG	RYG	RYG	
PHASE 1 + 6	<b>←</b> G—	G	R	R	R	R	
1 + 6 CHANGE	<b>←</b> Y —	G	R	R	R	R	
PHASE 2 + 6	G	G	G	G	R	R	
2 + 6 CHANGE	Y	Y	Υ	Υ	R	R	
PHASE 4	R	R	R	R	G	G	
4 CHANGE	R	R	R	R	Y	Y	H >>
PHASE 4 ALT.	R	R	R	R	G	G	
PED CLEAR	R	R	R	R	G	G	
4 ALT, CHANGE	R	R	R	R	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

REVISIONS

APPROVALS

REVISIONS

ASSISTANT DIVISION CHIEF

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIV.

DATE:
SCALE

DIRECTOR, OFFICE OF TRAFFIC & SAFET



MARYLAND DOT — STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET MD 150 AND BENGIES ROAD

ΓE:	1-28-96	DRAWN BY: T. ZAYDEL	F.A.P. NO.		PLAN	
\LE:	<u>NONE</u>	DESIGNED BY: T. ZAYDEL	S.H.A. NO.	SHANO: 8395578506 4035	SHEET NO.:	SHEET NO.
PROVED	BY:	CHECKED BY: K, SCHMID	COUNTY	BALTIMORE	TS-1487C GI	OF